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Engineering Experiment Station  
Bulletin

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University of Kentucky  
College of Engineering

PROCEEDINGS OF THE  
KENTUCKY HIGHWAY CONFERENCE  
NOVEMBER 15-16, 1966



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**UNIVERSITY OF KENTUCKY  
ENGINEERING EXPERIMENT STATION**

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ENGINEERING RESEARCH  
UNIVERSITY OF KENTUCKY

Proceedings of the  
Kentucky Highway Conference  
November 15-16, 1966

BULLETIN NO. 85

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The Engineering Experiment Station  
College of Engineering  
University of Kentucky  
Lexington

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## EIGHTEENTH ANNUAL

# KENTUCKY HIGHWAY CONFERENCE

NOVEMBER 15-16

1966

### PURPOSE

The annual Kentucky Highway Conference has as its purpose the interchange of ideas and dissemination of information among those concerned with the technical and administrative aspects of design construction and maintenance of public roads and streets.

*Sponsored by*

COLLEGE OF ENGINEERING  
UNIVERSITY OF KENTUCKY

UNIVERSITY EXTENSION  
UNIVERSITY OF KENTUCKY

COMMONWEALTH OF KENTUCKY  
DEPARTMENT OF HIGHWAYS

### PROGRAM

*Tuesday, November 15*

9:30-12:00 A.M. EST

GENERAL SESSION—Memorial Hall, Judge James A. Dressman, Jr., Kenton County, President, County Judges Association, Presiding.

1. Invocation—Rev. Jon Dalton, Y.M.C.A., Director, University of Kentucky.
2. Welcome to the University—Dr. Robert M. Drake, Jr., Dean, College of Engineering.
- \*3. Address—M. W. Tinder, Commissioner, Kentucky Department of Highways.
4. Address—"Roadside Development" by Howard S. Ives, State Highway Commissioner, Connecticut and Chairman, AASHO Committee on Roadside Development.

12:00-1:45 P.M.

LUNCHEON—Grand Ballroom, Student Center, A. O. Neiser, Deputy Highway Commissioner and State Highway Engineer, Kentucky Department of Highways, Presiding.

\*Address—Honorable Edward T. Breathitt, Governor, Commonwealth of Kentucky.

2:00-4:30 P.M.

### TECHNICAL DIVISION SESSIONS

I. URBAN HIGHWAYS AND STREETS—Student Center, Room 206. Joseph Heidenreich, Traffic Engineer, City of Lexington, Presiding.

\*1. "How a City Meets the Financial Obligation of Street Improvement," Honorable Fred E. Fugazzi, Mayor of Lexington.

\*2. "Programming Urban Improvements on the State Highway System," J. R. Harbison, Program Management Engineer, Kentucky Department of Highways.

3. Panel—"What Is Your Question?"

Grover Ethington, Assistant Director, Division of Traffic, Kentucky Department of Highways.

William Kell, City Manager, Ashland, Kentucky.

J. R. Harbison, Program Management Engineer, Kentucky Department of Highways.

Charles H. Kuhn, City Engineer, Ft. Thomas, Kentucky.

Honorable Fred E. Fugazzi, Mayor of Lexington.

M. W. Tinder, Commissioner, Kentucky Department of Highways.

II. STRUCTURAL SESSION—Student Center, Room 245. Carl P. Kroboth, President, Kroboth Engineers, Inc., Lexington, Presiding.

\*1. "Aesthetics of Bridges," Mr. Robert Foster, Chief Bridge Design Engineer, Alberta Department of Highways, Edmonton, Canada.

\*2. "Post-Tensioned Cast-in-Place Concrete for Bridges," Eugene A. Lamerson, Joseph T. Ryerson & Son, Inc., Chicago, Illinois.

3. Films—"Rhapsody in Steel" and "The Family of Steel," William Overstreet, United States Steel, Chicago, Illinois.

III. COUNTY AND RURAL SECONDARY ROADS—Student Center Theater.

John Witt, Assistant Director, Division of Rural Roads, Kentucky Department of Highways, Presiding.

\*1. "County and State Rural Road Program," James T. Sable, McCracken County Road Engineer.

\*2. "Program Development," Calvin Grayson, Assistant Program Management Engineer, Kentucky Department of Highways.

\*3. Address—M. W. Tinder, Commissioner, Kentucky Department of Highways.

IV. HIGHWAY ENGINEERING AND OPERATIONS—Student Center, Grand Ballroom, K. B. Johns, Operations Management Engineer, Kentucky Department of Highways, Presiding.

\*1. "Maintenance Equipment Development," B. C. Wooton, Principal Maintenance Engineer, Division of Maintenance, Kentucky Department of Highways.

\*2. "Developments in Concrete Paving Techniques," Harold Halm, Executive Director, American Concrete Paving Association, Chicago, Illinois.

\*3. "Developments in Asphalt Paving Techniques," John Gray, Executive Director, National Asphalt Pavement Association, Riverdale, Maryland.

**Wednesday, November 16**

**9:30-12:00 A.M.**

GENERAL SESSION—Memorial Hall, J. B. Kemp, Division Engineer, Bureau of Public Roads, Kentucky Division, Presiding.

**HIGHWAY SAFETY:**

1. "What Is Being Done in Highway Safety Now From Highway Traffic Viewpoint":

\*C. L. Willis, Traffic Engineer, Division of Traffic, Kentucky Department of Highways.

\*C. J. Henry, Design Engineer, Division of Design, Kentucky Department of Highways.

J. W. Hutchinson, Associate Professor of Civil Engineering, University of Kentucky.

Charles B. Jones, Secretary, Governor's Coordinating Committee for Traffic Safety and Director, Division of Accident Control, Kentucky Department of Public Safety.

\*2. "Enforcement," James E. Bassett, Director, Division of State Police, Department of Public Safety.

\*3. "Federal Safety Legislation," James D. Lacy, Director of Highway Safety, Bureau of Public Roads, Washington, D. C.

**12:00-1:30 P.M.**

LUNCHEON—Grand Ballroom, Student Center, M. W. Tinder, Deputy Commissioner of Highways, Presiding.

Film—"Capital Construction," J. M. Phillips, Director, Division of Public Affairs, Kentucky Department of Highways.

**2:00-4:30 P.M.**

SPECIFICATIONS: Four Separate Sessions.

I. STRUCTURES AND SPECIALTY ITEMS—Student Center Theater.

G. F. Vansant, Jr., Assistant Projects Management Engineer, Kentucky Department of Highways, Moderator.

K. A. Akin, Assistant Bridge Construction Engineer, Division of Construction, Kentucky Department of Highways.

J. S. Baskett, Acting Director, Division of Bridges, Kentucky Department of Highways.

Paul A. Faulkner, Chief Engineer, Ruby Construction Co., Louisville, Kentucky.

Kenneth R. Hagan, Partner, R. R. Dawson Bridge Company, Bloomfield, Kentucky.

John W. Saltsman, Jr., Vice President, Saltsman Construction Company, Bardstown, Kentucky.

A. B. Thompson, Vice President, Sam Nally Association, Bardstown, Kentucky.

Ralph R. Waddle, Chief Construction Engineer, Division of Construction, Kentucky Department of Highways.

Rob Worthington, Sales Manager, Hinkle Construction Corporation, Paris, Kentucky.

II. "CEMENT CONCRETE PAVEMENT,"

Student Center, Room 206.

E. B. Gaither, Jr., Director, Division of Design, Kentucky Department of Highways, Moderator.

Andrew J. Bauer, Jr., President, Shamrock Corporation of Kentucky, Louisville, Kentucky.

Russell DeSalvo, Jr., Secretary-Treasurer, The DeSalvo Construction Company, Cincinnati, Ohio.

G. B. Drake, Principal Specifications Engineer, Division of Design, Kentucky Department of Highways.

J. J. Farra, District Engineer, Portland Cement Association, Louisville, Kentucky.

W. L. Harper, President, W. L. Harper Construction Company, Inc., Covington, Kentucky.

William D. Kelly, Vice President, Kelly Construction Company, Inc., Louisville, Kentucky.

B. L. Wheat, Chief Construction Engineer, Division of Construction, Kentucky Department of Highways.

Dan C. Woodward, Chief Construction Engineer, Division of Construction, Kentucky Department of Highways.



III. FLEXIBLE PAVEMENT—Student Center, Room 245.

W. B. Drake, Assistant Projects Management Engineer, Kentucky Department of Highways, Moderator.

W. L. Echstenkamper, Chief Engineer, Plant-mix Asphalt Industry of Kentucky, Inc., Frankfort, Kentucky.

Wendell O. Eldridge, President, Middle West Roads Company, Louisville, Kentucky.

Everett S. Gordon, Principal Materials Engineer, Division of Materials, Kentucky Department of Highways.

James H. Havens, Director, Division of Research, Kentucky Department of Highways.

Cyrus S. Layson, Chief Construction Engineer, Division of Construction, Kentucky Department of Highways.

D. L. Mathis, President, Mago Construction Company, Inc., Bardstown, Kentucky.

Harold Mays, Director, Division of Materials, Kentucky Department of Highways.

Jack E. Ruth, President, East Kentucky Paving Corporation, Grayson, Kentucky.

IV. "GRADE AND DRAIN CONSTRUCTION," Student Center, South End of Ballroom.

G. F. Kemper, Director, Division of Construction, Kentucky Department of Highways, Moderator.

John Bizzack, President, Bizzack Brothers Construction Corporation, Frankfort, Kentucky.

S. T. Collier, Chief Specifications Engineer, Division of Design, Kentucky Department of Highways.

R. C. Deen, Assistant Director, Division of Research, Kentucky Department of Highways.

R. C. Durr, Owner, R. C. Durr Construction Company, Independence, Kentucky.

Elmo Greer, President, Greer Brothers and Young, Inc., London, Kentucky.

Henry Mathis, Principal Materials Engineer, Division of Materials, Kentucky Department of Highways.

C. B. Owens, Vice President, Codell Construction Company, Winchester, Kentucky.

Clinton Don Wood, Secretary-Treasurer, Wood & Bush Company, Frankfort, Kentucky.

John Woodruff, Owner, John Woodruff Construction Company, Cadiz, Kentucky.

6:00 P.M.

ANNUAL DINNER—Phoenix Hotel—Sponsored by the Kentucky Association of Highway Contractors. Admission by ticket. Elmo Greer, President, Kentucky Association of Highway Contractors, Presiding.

Address—Robert M. Young, Cornell-Young Company, Macon, Georgia, Immediated Past President, Contractors Division, American Road Builders Association.

EIGHTEENTH KENTUCKY HIGHWAY CONFERENCE COMMITTEE

D. K. Blythe, Chairman, Civil Engineering Department, Co-Chairman

W. B. Drake, Assistant Projects Management Engineer, Co-Chairman

Vic Comley, Executive Director, Kentucky Association of Highway Contractors

R. C. Deen, Assistant Director, Division of Research

R. G. Figg, Director, Conferences and Institutes

J. W. Hutchinson, Associate Professor, Civil Engineering

K. B. Johns, Operations Management Engineer

S. A. Mory, Professor of Structural Engineering

J. M. Phillips, Director, Division of Public Affairs

H. H. Sandusky, Director, Division of Rural Roads

W. O. Snyder, Executive Secretary, Kentucky Association of Highway Contractors

W. B. Stamper, Assistant to the Commissioner of Highways

\* Papers published in this bulletin.